

## CLAIMS

1. An image transmission system for a mobile robot, comprising:  
a camera for capturing an image as an image signal;  
5 a microphone for capturing sound as a sound signal;  
human detecting means for detecting a human from the captured image and/or  
sound;  
a power drive unit for moving the robot toward the detected human;  
an image cut out means for cutting out an image of the detected human  
10 according to information from the camera; and  
image transmitting means for transmitting the cut out human image to an  
external terminal.
2. An image transmission system according to claim 1, wherein the system is  
15 adapted to detect a moving object from the image signal obtained from the camera, and  
determine that the object is a human from color information of the moving object.
3. An image transmission system according to claim 1, wherein the system is  
adapted to determine a direction of a sound source from the sound signal obtained from  
20 the microphone.
4. An image transmission system according to claim 1, further comprising means  
for monitoring state variables including a current position of the robot; the image  
transmitting means transmitting the monitored state variables in addition to the cut out  
25 human image.

5. An image transmission system according to claim 1, wherein the system is adapted to have the robot direct the camera toward the position of the detected human.

5 6. An image transmission system according to claim 1, wherein the system further comprises means for measuring a distance to the detected human according to the information from the camera, and providing a target of a movement to said mobile robot.